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CENTRAL INTELLIGENCE AGENCY

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COUNTRY	East Germany	REPORT	
SUBJECT	Constructional Details of Armored Vehicles Undergoing Repairs at the Soviet Repair Shop in Wuensdorf	DATE DISTR.	8 JAN 1960
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report, including three sketches, concerning the constructional details of armored vehicles undergoing repairs at the Soviet Tank Repair Shop in Wuensdorf. The sketches include details on the following: T-34/85 shaded headlamp; T-34/85 gun barrel support; angle of T-54 glacis and lower nose plate; placement of supplementary fuel tanks on the T-54; location of shell storage; and placement of unidentified containers on the stern of the T-54. The report is essentially an explanation of the sketches.

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EAST GERMANY/U.S.S.R.MILITARYConstructional Details of AFVs undergoing repair at the  
AFV Repair Depots(April/May, 1959)1. T34/84

Since the beginning of April, 1959, all T34/85s passing through the workshops have been equipped with two additional supplementary fuel tanks, bringing the total number of tanks per AFV to five. The two additional tanks are fitted to the stern of the vehicle.

2. Headlamps - T34/85 and SU-100.

Since the 5th April, 1959, T34/85s and SU-100s have been fitted with two headlamps instead of one as previously. The lamps are positioned on either side of the AFV at the height of the first track wheel. The headlamp on the starboard side is shaded as shown in Appendix "A" Fig. 1.

3. Gun Support, T34/85.

During the month of April, 1959, two of the T34/85s coming to the workshop for repair were fitted with a gun support as sketched in Appendix "A" Fig. 2. The support was fitted on the stern and could be folded to the rear. The construction and fitting of the support were very primitive and the welding badly done. The guns of the vehicles were of the normal pattern.

4. T54 - Angle between Glacis Plate and Lower Noseplate.

See Appendix "B" Fig. 1. This angle measures 62°.

5. T54 - Internal fittings.

(a) 4 x 12 volt, 120 amp/h. accumulators are fitted in a carrier situated on the right of the drivers' position as shown in the sketch. The accumulators are positioned in two pairs vertically above each other in the longitudinal axis of the vehicle. (See Appendix "B" Fig. 2A).

(b) Shell Stowage (See Appendix "B" Fig. 2B).

Two alternative forms of ammunition stowage have been seen in T54s, each situated on the starboard side of the driver's compartment approximately 60 cm. from the nos. of the vehicle. One stowage variant takes 48 shells stowed horizontally in six layers of eight, the other variant 36 shells in six layers of six.

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(c) Fuel tanks.

Three internal fuel tanks have been seen in the T.54:

- i) Is situated between the engine and the cabin partition wall and its length is identical with the width of the vehicle. The tank is sketched at Appendix "B" Fig.2C.
- ii) The tank sketched at Appendix "B" Fig. 2D is situated high up on the inside of the port side plate at the rear of the AFV.
- iii) The tank sketched at Appendix "B" Fig. 2E is situated in front of the ammunition stowage in the bow of the tank.

6. Supplementary Fuel Tanks.

Three flat external supplementary fuel tanks are fitted as standard equipment to the T54 and are connected by fuel-lines to the internal tanks as follows:

- (a) One tank (Appendix "B" Fig. 2F) is on the port side above the fifth trackwheel and is mounted on the track-guard. This tank is connected to tank 2D described above.
- (b) Two tanks (Appendix "B" Fig. 2G) are mounted on the track-guard above the fourth and fifth trackwheels on the starboard side, and are connected to the tank 2C described above.

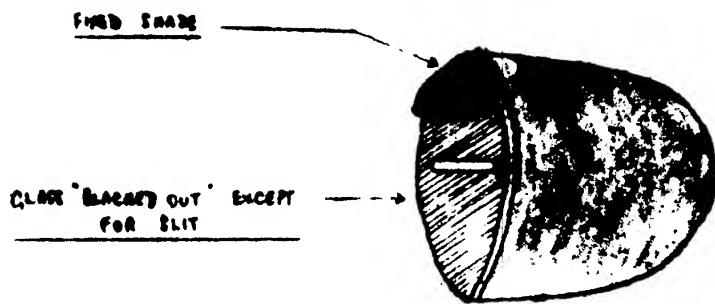
7. On one occasion during the period under review two large containers as shown in Appendix "C" were seen fitted to the stern of a T54 after it had passed through the repair workshop and was in the shed in which final inspections are carried out by the Technical Control Officer. The containers appeared to be made of aluminium and were fitted on two semicircular brackets at the stern of the AFV. The size of each container is assessed as between 1 and 1.2 metres in length and 50 to 60 cm. in diameter.

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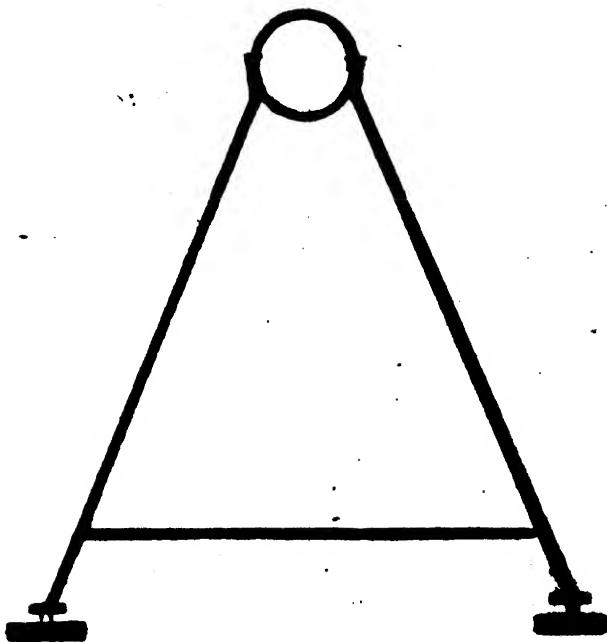
APPENDIX A

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FIG 1.



SHADED HEADLAMP - T34/85

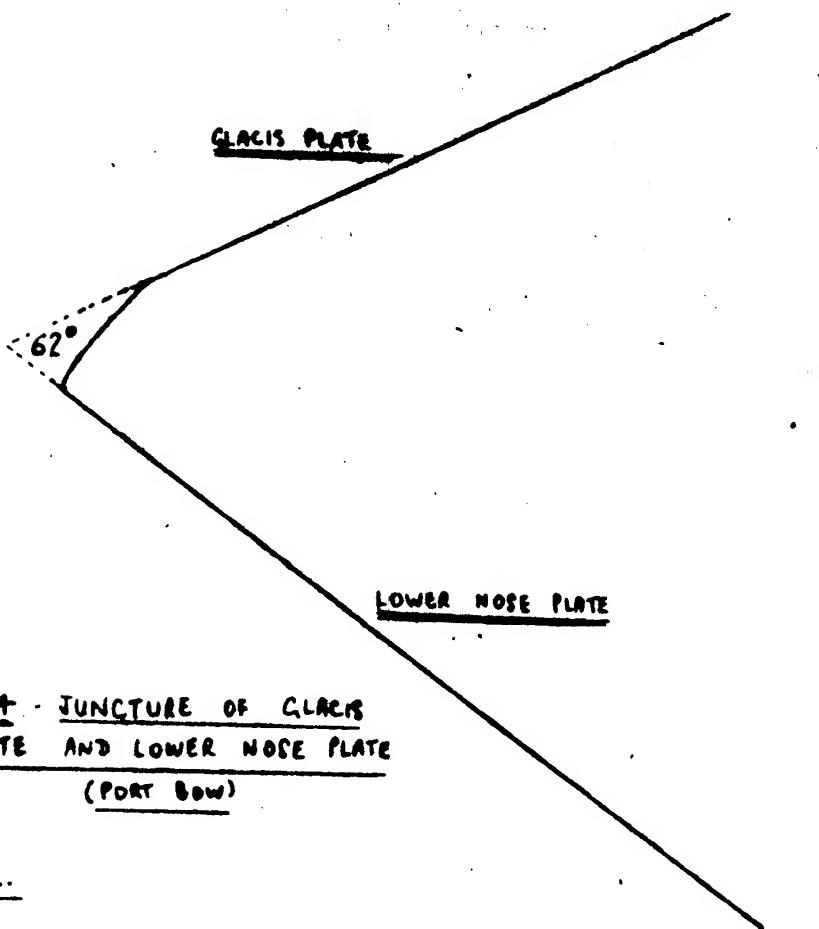


GUN BARREL SUPPORT - T34/85

SKETCHES ONLY - NOT TO SCALE

APPENDIX B

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T54 - JUNCTURE OF GLACIS PLATE AND LOWER NOSE PLATE (PORT BOW)

FIG 1.

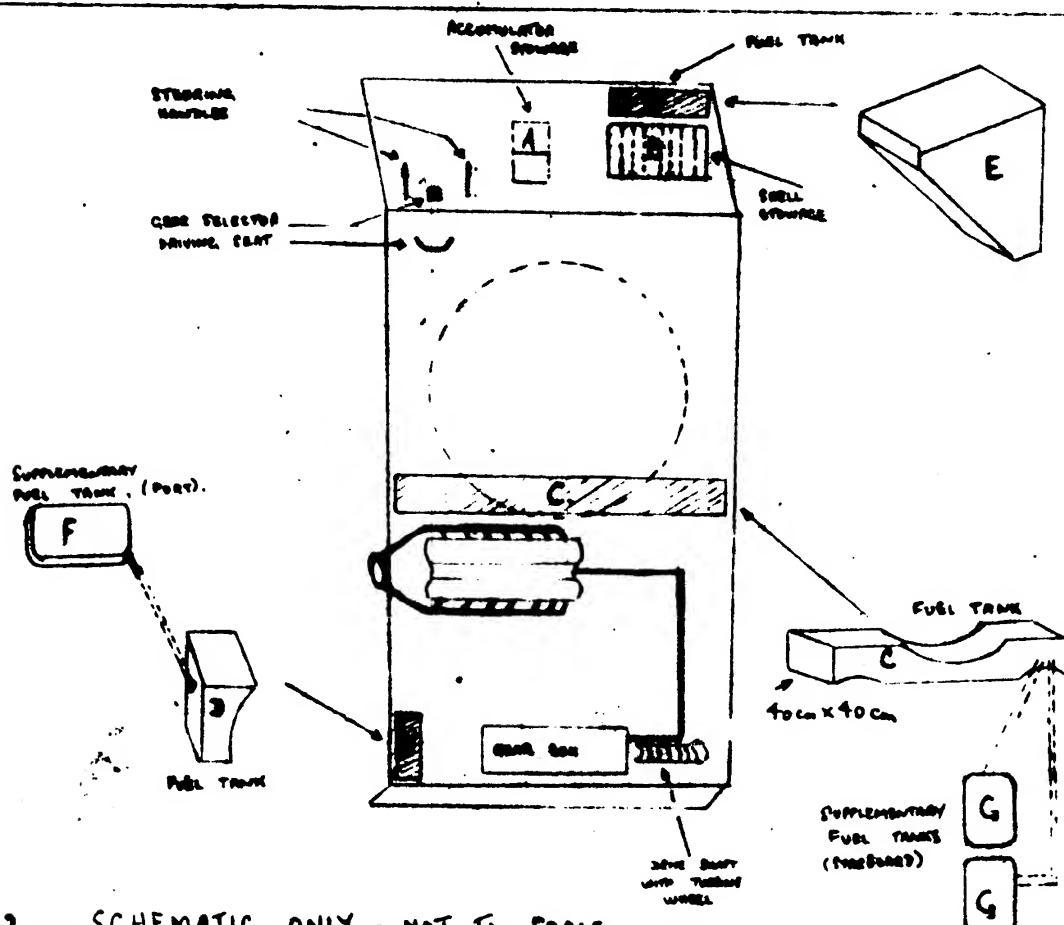
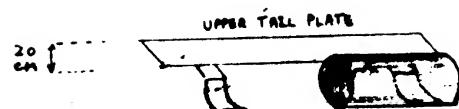


FIG 2. SCHEMATIC ONLY - NOT TO SCALE

APPENDIX C



CONTAINER ATTACHED TO THE STERN OF A TS4.

WUNSDORF REPAIR DEPOT.

MAY, 1959

DIAGRAMMATIC DRAW. SHOWING ONE CONTAINER OF A PAIR IN POSITION.